Project Design Phase-II
Technology Stack (Architecture & Stack)

Date	27-10-2023
Team ID	Team-592312
Project Name	Car Purchase Prediction
Maximum Marks	5 Marks

Technical Architecture:

The Deliverable shall include the architectural diagram as below and the information as per the table1 & table 2
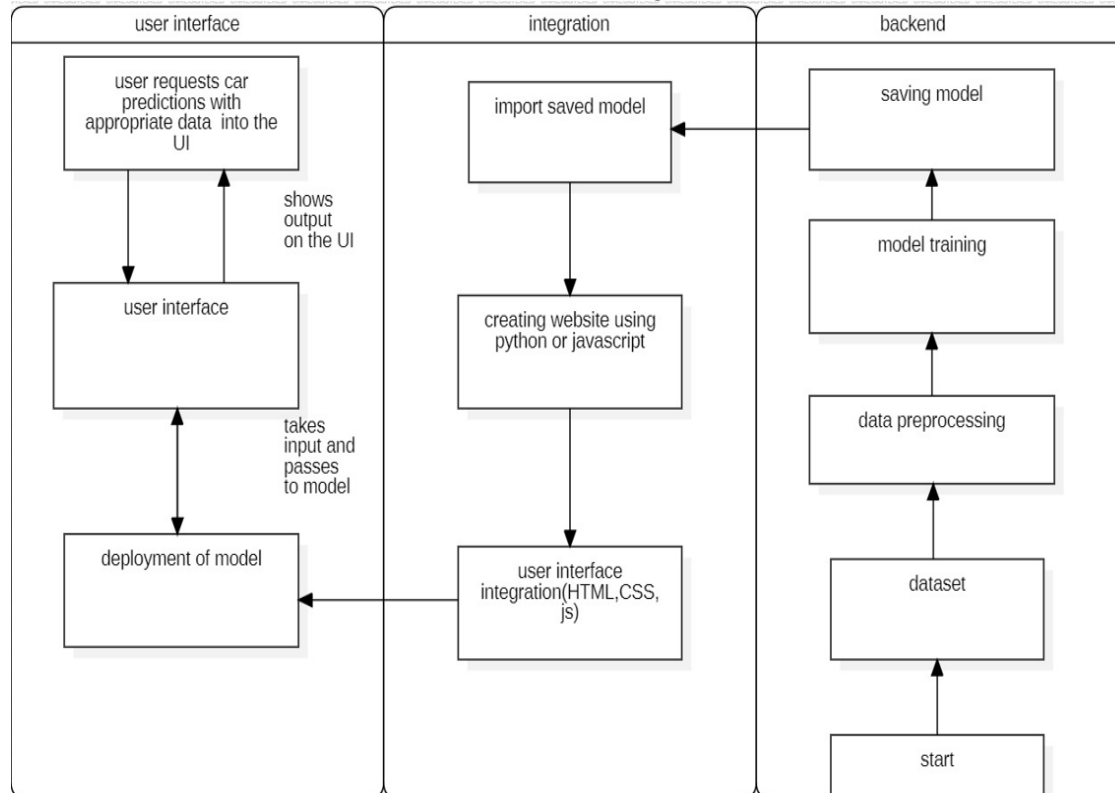
Table-1 : Components & Technologies:

S.No	Component	Description	Technology
1.	User Interface	How user interacts with application e.g. Web UI, Mobile App, Chatbot etc.	HTML, CSS, JavaScript / Angular Js / React Js etc.
2.	Application Logic-1	Logic for a process in the application	Java / Python
3.	Database	Data Type, Configurations etc.	File Manager, NoSQL, etc.
4.	Cloud Database	Database Service on Cloud	Global Automotive Sales Database etc.
5.	File Storage	File storage requirements	Local Filesystem, Google drive or Other Storage
6.	External API-1	Purpose of External API used in the application	Python flask , Django ,VScode API etc.
7.	Machine Learning Model	Purpose of Machine Learning Model	Data preprocessing model, etc.
S.No	**Component**	**Description**	**Technology**

	8.	Infrastructure (Server / Cloud)	Application Deployment on Local System / Cloud Local Server Configuration: Cloud Server Configuration :	Local, Cloud Foundry, Kubernetes, etc.

Table-2: Application Characteristics:

S.No	Characteristics	Description	Technology
1.	Open-Source Frameworks	List the open-source frameworks used	Python's flask ,VScode(HTML,CSS) etc.
2.	Security Implementations	List all the security / access controls implemented, use of firewalls etc.	e.g. SHA-256, Encryptions, IAM Controls, OWASP etc.
3.	Scalable Architecture	Justify the scalability of architecture (3 – tier, Micro-services)	Technology used
4.	Availability	Justify the availability of application (e.g. use of load balancers, distributed servers etc.)	Technology used
5.	Performance	Design consideration for the performance of the application (number of requests per sec, use of Cache, use of CDN's) etc.	Technology used

References:

https://c4model.com/

https://medium.com/the-internal-startup/how-to-draw-useful-technical-architecture-diagrams-2d20c9fda90d

https://www.goodcarbadcar.net/